

CLAIMS

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1. Strengthening layer for composites to be formed by means of vacuum technique, which layer substantially consists of a strengthening material and for a smaller part of transport threads of substantially round and substantially form-retaining cross-section for guiding the resin therealong, which threads lie substantially in the direction of the resin transport.
2. Strengthening layer as claimed in claim 1, characterized in that the transport threads lie in the same plane as the rest of the strengthening material.
3. Strengthening layer as claimed in claim 1 or 2, characterized in that the transport threads lie against one or both sides of the strengthening layer.
4. Strengthening layer as claimed in claims 1-3, characterized in that the strengthening material takes at least partly the form of endless threads lying substantially parallel adjacently of each other, or multifilaments.
5. Strengthening layer as claimed in claims 1-4, characterized in that the form-retention of the transport threads is achieved in that they consist of two or more twined single threads.
6. Strengthening layer as claimed in claims 1-4, characterized in that the form-retention of the transport threads is achieved in that they consist of torsional single threads.
7. Strengthening layer as claimed in claims 1-4, characterized in that the form-retention of the transport threads is achieved in that they consist of a coating applied to the whole or partial surface of the thread.
8. Strengthening layer as claimed in claim 7, characterized in that the coating is a glue.
9. Strengthening layer as claimed in claims 1-4, characterized in that the form-retention of the transport

threads is achieved in that they are monofilament threads.

10. Strengthening layer as claimed in claims 1-4, characterized in that the form-retention of the transport
5 threads is achieved in that they are provided with a sheath.

11. Strengthening layer as claimed in claim 10, characterized in that the sheath consists of a knit.

12. Strengthening layer as claimed in claim 10,
10 characterized in that the sheath consists of a braiding.

13. Strengthening layer as claimed in claims 1-4, characterized in that the form-retention of the transport threads is achieved in that they form part of a structure of threads which are mutually connected by a binding such
15 that the round form of the transport threads cannot be distorted, or hardly so.

14. Strengthening layer as claimed in claim 13, characterized in that the form-retention of the transport threads is achieved in that they form part of a gauze.

20 15. Strengthening layer as claimed in claim 13, characterized in that the form-retention of the transport threads is achieved in that they form part of a web manufactured according to the Rachel technique.

25 16. Strengthening layer as claimed in any of the foregoing claims, characterized in that the transport threads are formed from glass, carbon, kevlar, flax, other vegetable or synthetic fibres or combinations thereof.

30 17. Strengthening layer as claimed in any of the foregoing claims, characterized in that the strengthening material is formed from glass, carbon, kevlar, flax, other vegetable or synthetic fibres or combinations thereof.

35 18. Strengthening layer as claimed in any of the foregoing claims, characterized in that the transport threads are manufactured from the same material as the strengthening material of which the rest of the layer consists.

19. Assembly of strengthening layers, comprising at least one strengthening layer as claimed in any of the foregoing claims.

20. Composite consisting of at least one layer embedded in resin as claimed in claims 1-18 or an assembly as claimed in claim 19.

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